

S/N: K35820

Size: 65W Series

Rev: A0

Issue Date: 29-12-21 Sheet No. : 1 OF 10

SPECIFICATION FOR APPROVAL

CUSTOMER APPROVAL CONTENT:				
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1.0HISTORY REVISION

Revision Date	Revision Page	Description	Remark



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2.0 Electrical performance

2.1 Input Characteristics:

Rated input voltage	100-240Vac
Operating range	90-264Vac
Rated input frequency	50-60Hz
Rated input current	1.8A Max.
Power consumption (no loading)	0.21W Max. (Input voltage 115V and 230V)
Primary current protection	An adequate internal fuse on the AC input line is provide.
Configuration	Conductor

2.2 Output Characteristics:

2.2.1	Nominal dc output voltage	24.0V
2.2.2	Minimum load current	0.0A
2.2.3	Rating load current	2.5A
2.2.4	Rating output power	60.0W
2.2.5	Line regulation	The line regulation is less than ±5% while measuring at rated load and +/-10% of input voltage changing.
2.2.6	Load regulation	The load regulation for output is less than $\pm 5\%$, at measured output load from 10% to 100% rated load .
2.2.7	No load voltage range	22.8-25.2V
2.2.8	Ripple and noise	≤200mVp-p
		Full load Ripple and noise 200mVpp-pmax. Measurement is done by 20MHZ bandwidth oscilloscope and the output Paralleled a 0.1µF ceramic capacitor and a 10µF electrolysis capacitor.(test under the Condition of rated input and rated output)
2.2.9	Average efficiency	Accord with energy level VI. Average efficiency 88.00% minimum
		115V/60Hz and 230V/50Hz, output current from 100%, 75%, 50%, 25%.



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2.2.10	Turn on delay time	3000 mS. At nominal input AC voltage and full load
2.2.11	Rise time	The Supply shall have a start-up rise time of less than 100 mS to rise to within regulation limits for all DC outputs.
2.2.12	Hold up time	5 mS minimum At nominal input AC voltage and full load
2.2.13	Output over-shoot	Less than 10% of nominal voltage value
2.2.14	Protection function	
	Over current protection	At rated AC input, output current in the range of/, the power supply will protect

2.3Dielectric Withstand Voltage (HI-POT):

Engineering test:This Adapter shall be applied 3000Vac for 60s between AC input terminal to DC output terminal and enclosure. The cutoff current is specified as 10 mA; Large cargo product testing: This Adapter shall be applied 3000Vac for 2s between AC input terminal to DCoutput terminal and enclosure. The cutoff current is specified as 10 mA

2.4 Insulation Resistance:

DC $\underline{500}$ V $\underline{30}$ M Ω min between input to output and enclosure.

2.5 Overload Test:

In an ambient temperature of $\underline{25}^{\circ}$ C applies a power source of rated input with the output load adjusted to 10% of rated output and rated continuously for $\underline{4}$ Hours, after turning off 60 minutes in normal temperature.

2.6 Humidity Test:

Temperature 35 °C, 90~95% RH for 4 Hours after taken out from oven.

3.0 Mechanical Characteristics

3.1 Strain Relief Test:

Distance plug or 30CM SR position to impose a 10 pound weight, 1 minutes after the shift is less than 2MM.

3.2 Cord Bending Test:

The cord shall withstand a weight of $\underline{400}$ g, swinging from left to right at an angle of $\underline{120}$ degree, $\underline{40}$ cycle/min, $\underline{1000}$ times minimum. The cord shall be conductible.

3.3 Drop Test:

Product shall be dropped from a height of <u>80</u>cm, onto 1cm thickness dry wood surface 1 times from 3 different surface. (For reference only)

4.0 Environmental:

4.1 Operating Temperature and Humidity Range:

Operate over the temperature range of 0° to 35° , 20° to 90° relative humidity no condensation.

4.2 Storage Temperature and Humidity Range



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The operation specified herein will not be adversely affected if stored or transported within the temperature limits of $\underline{-20^{\circ}C}$ to $\underline{+70^{\circ}C}$ with relative humidity up to $\underline{90\%}$ no condensation.

5.0 Surface Structure:

5.1 Appearance: Rift, dirty etc. are not permitted.5.2 Outline: Dimension and express as drawing

5.3 Net Weight: 300g Max.

6.0 Safety & EMC:

6.1 Safety Standard: EN62368-1:2014/A11:2017 UL62368

IEC 61558-2-16-2015 IEC 61558-1-2012

6.2 EMC Standard: EN55032:2015,EN55035:2017 FCC part 15

7.0 MTBF: <MIL-HDBK-217F>

The design and construction of this power supply shall exhibit a minimun mean time between failure of 50000 hours full rated load operation at 20--25 $^{\circ}$ C.

8.0 Others:

8.1 Instructions:

This power unit is intended to be correctly orientated in a vertical or floor mount position.

8.2 CAUTION (ATTENTION):

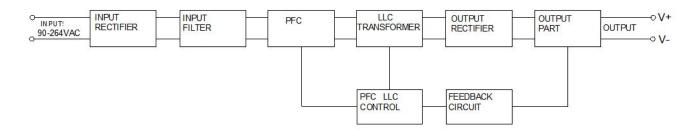
8.2.1 FOR INDOOR USE ONLY

(POUR UTILISATION À L'INTÉRIEUR SEULEMENT)

8.2.2 RISK OF FIRE OR ELECTRIC SHOCK

(RISQUES D'INCENDIE OU DE CHOC ÉLECTRIQUES)

9.0 WORKING MANUAL& BLOCK DIAGRAM:



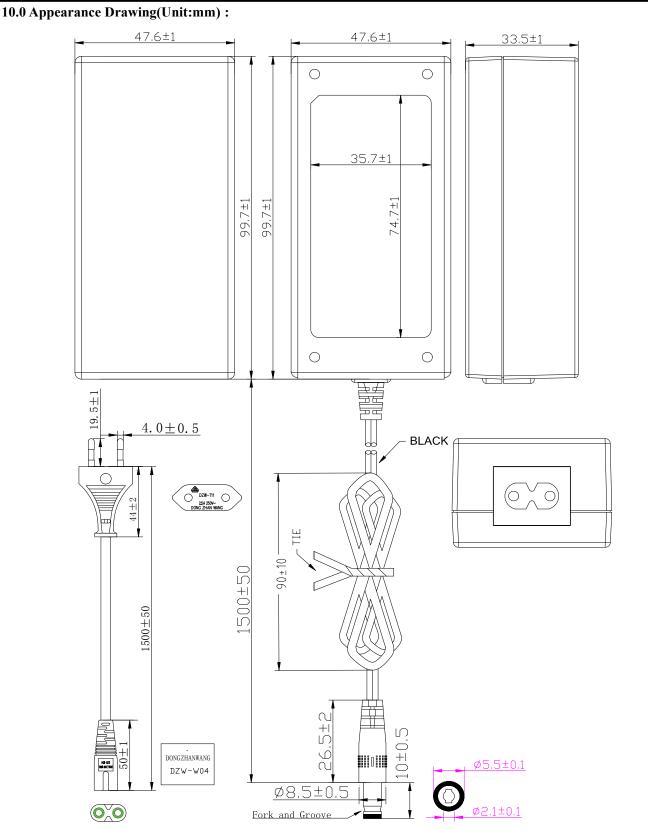
KPTEC®

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NOTE:

1) WIRE TYPE: VW-1 2468 80 °C 300V L=1500mm 2C 20AWG

AC cable: H03VVH2-F 2*0.75MM2 300/300V, one side is 2PIN EU plug, another side is 2PIN

connector, 1500MM, black

2) DC PLUG size: 5.5*2.1*10MM

3) THE POLARITY:



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Note:

- 1) Ming plate for radium carving.
- 2) "YYWW"expressed the production cycle: "YY" the year, "WW" the week.

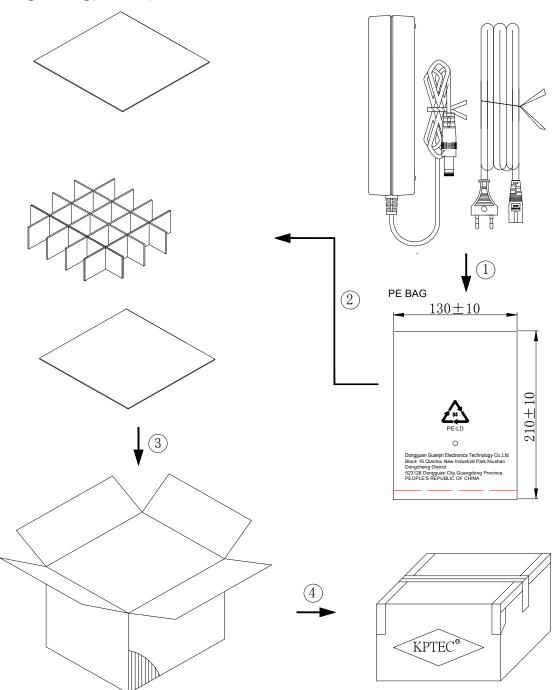


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12. Packing Drawing(Unit:mm)



NOTE: A case of 40PCS, a total of 2 layers, 20 PCS/layer.

1) Cardboard and Corrugated Board Material: B=C 2) PE Bag Material: 0.03mm

3) Outer Carton Material: A=B

4) Anlistatig: No requirement.

- 5) Environmental protection requirement: 94/62/EC.
- 6) We will select cardboard packing if customer don't specify packing type.
- 7) The sample package for temporary packaging, the big goods packaging as shown above packaging.